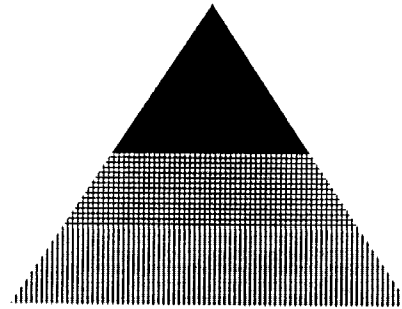


DOD ENTERPRISE MODEL



1 OCTOBER 1990

TODAY'S AGENDA

- Information Architecture Definition
- Importance of Data Standards
- Enterprise Model development
- Role of the Enterprise Model in the overall CIM Initiative
- Requirements for CIM Information Architecture

ARCHITECTURES

Blueprints or Roadmaps

- ARCHITECTURAL TYPES

Systems

Hardware

Information Flow

Application

Communications

Information

Data

Functions

- FOCUS

Current

Transition

Target

CIM DATA STANDARDIZATION

SCOPE

- Data which support DOD information requirements
- Strategic, tactical, and sustaining base information
- Includes data communicated across organizational boundaries (Excludes local use only)
- Addresses both automated and manual processes

CIM DATA STANDARDIZATION

ASSUMPTION

- Data independent of and maintained separately from the applications that use it
- Hardware independent
- Change in Philosophy

WHY WE NEED INFORMATION ARCHITECTURES

- Establish framework for now
now and the future
- Integrate business functions
and associated information
- Set functional boundaries

PROVIDE STRUCTURE TO MAKE
THE WHOLE GREATER THAN ITS PARTS

WHAT IS AN ENTERPRISE MODEL?

A representation of the
strategies, information, and functions
needed to accomplish DOD's
mission well into the next century

provides structure for:

Data Model

Functional Model

ENTERPRISE MODEL:

- Provides a structure for integration and interoperability
- Takes a top-down business-oriented approach
- Depicts major business areas of DOD
- Captures corporate policies
- Contains no organizational bias

TECHNIQUE FOR ENTERPRISE MODEL DEVELOPMENT

What is our business?

Mission
Goals
Objectives

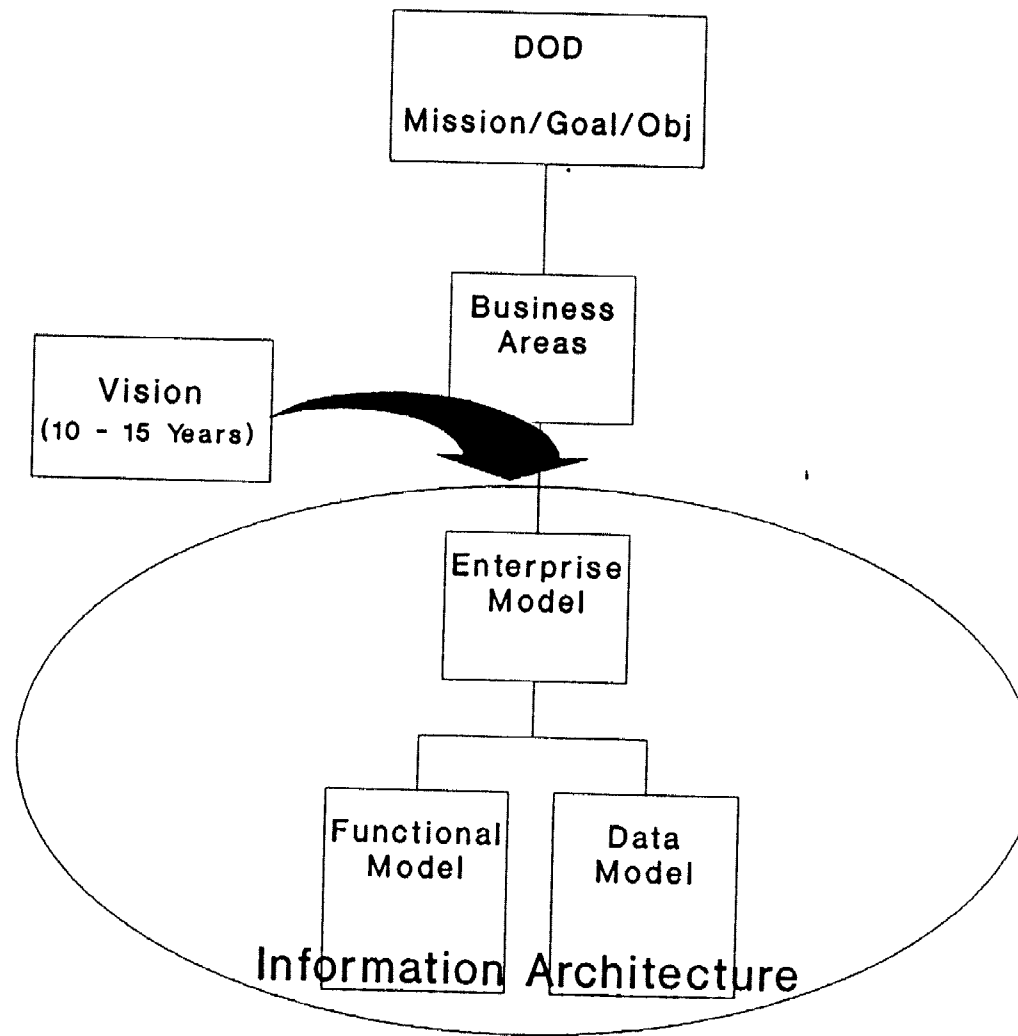
What will our business be?

Vision
Trends
Forecasts

What should our business be?

Strategic Direction
Combination of
Above

INFORMATION ARCHITECTURE COMPONENTS



THE ROLE OF THE ENTERPRISE MODEL

A tool for:

- Integrating CIM Functional Areas
- Defining boundaries
- Identifying linkages and connections

WHY IS INTEGRATION BETWEEN FUNCTIONS IMPORTANT?

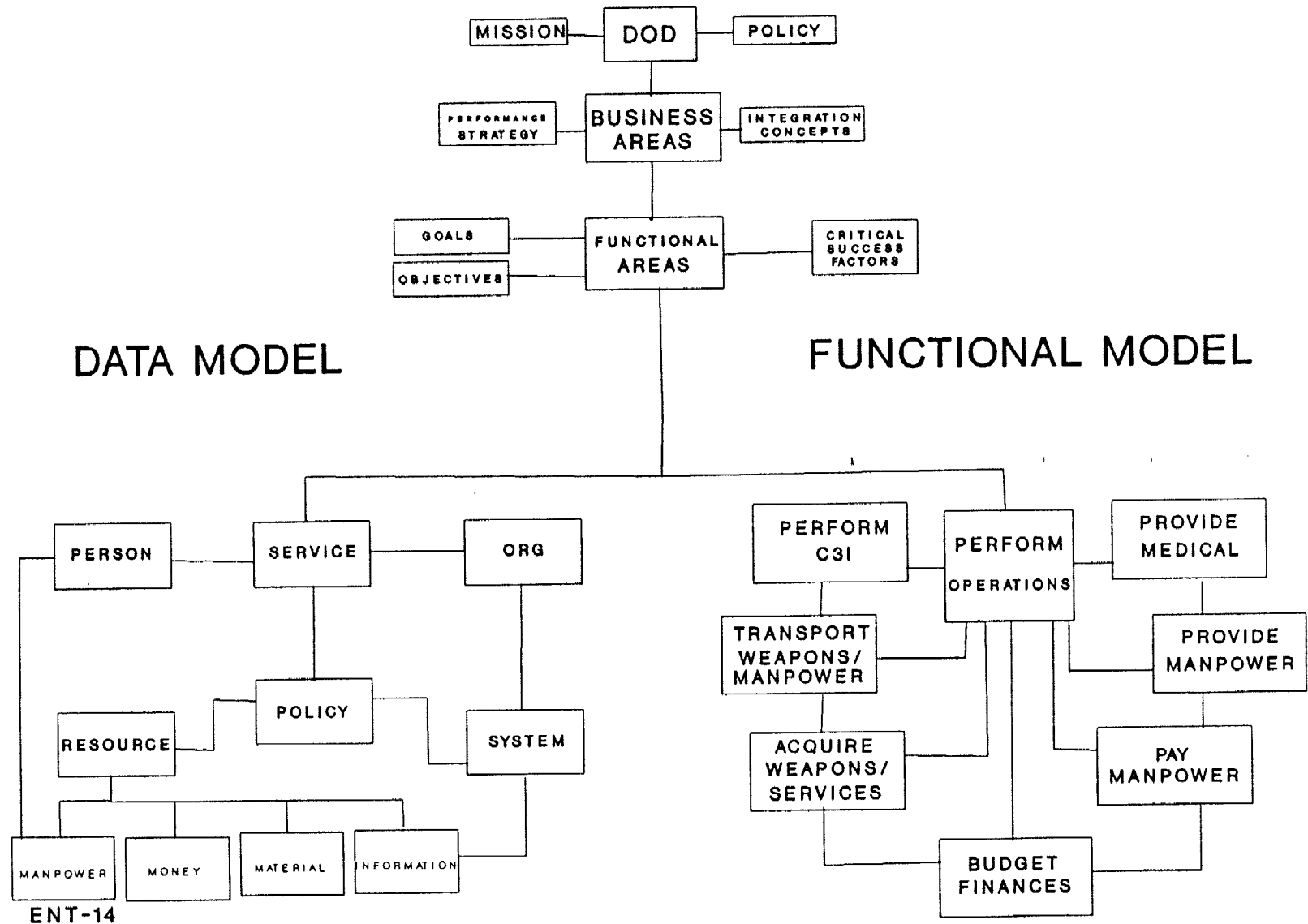
- Integration, interoperability
key goal of CIM
- Identifies where information
must be shared
- Reduces cost of information

METHODOLOGY

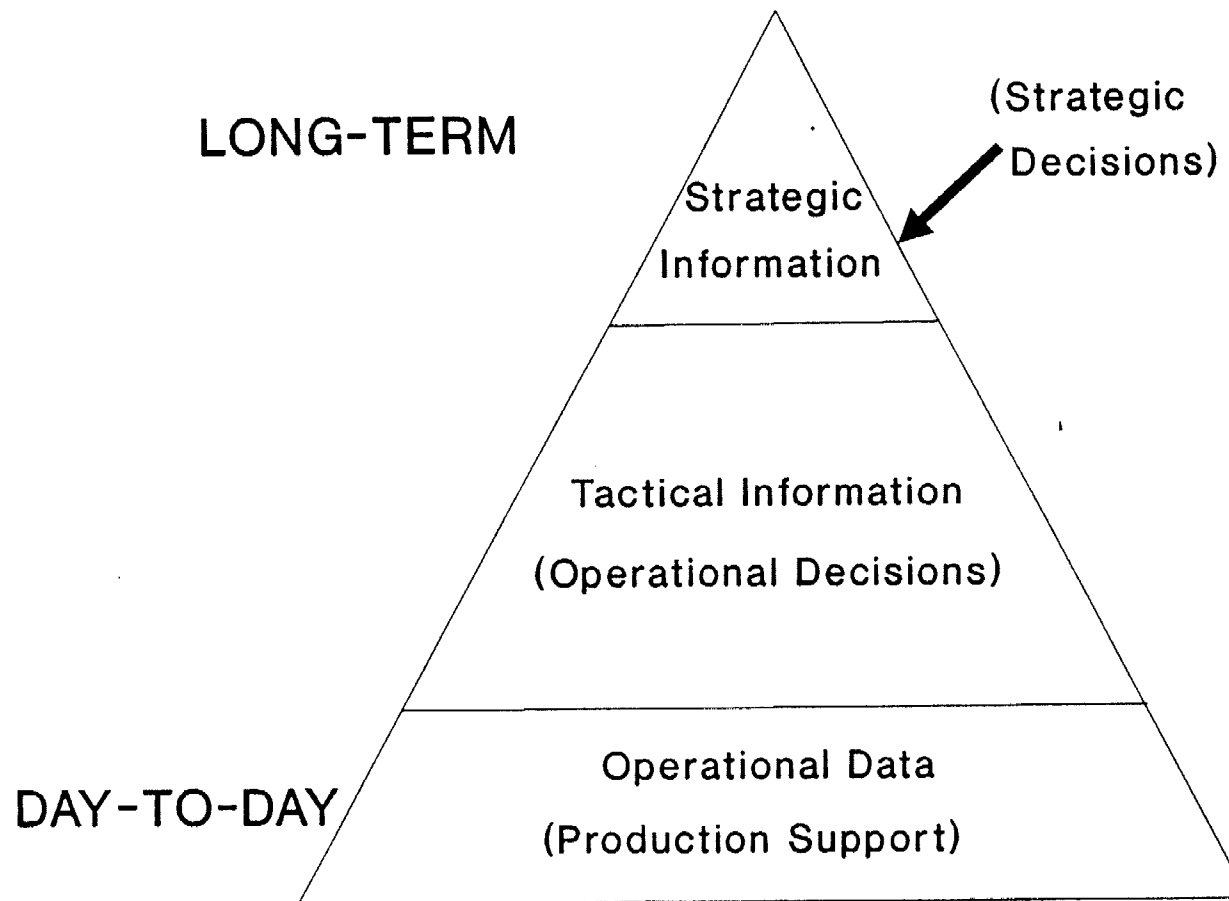
Dual Track

- Function/Process
Functional Decomposition
Defines Business Processes
- Information/Data
Information Engineering
Identifies Data and Relationships
based on Business Policy
- Starting Point: Enterprise Model
Reconciliation Points

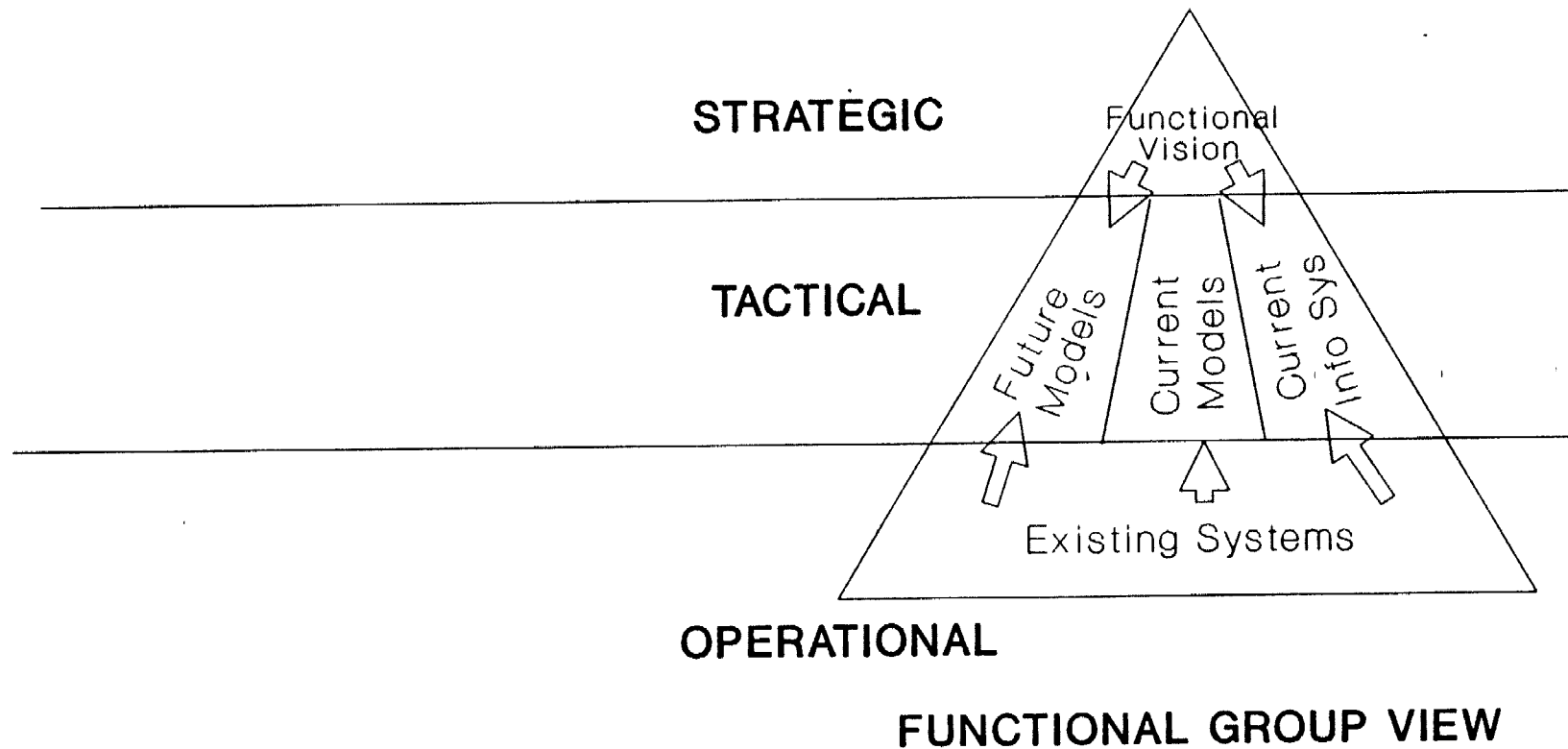
EXAMPLE DOD ENTERPRISE MODEL



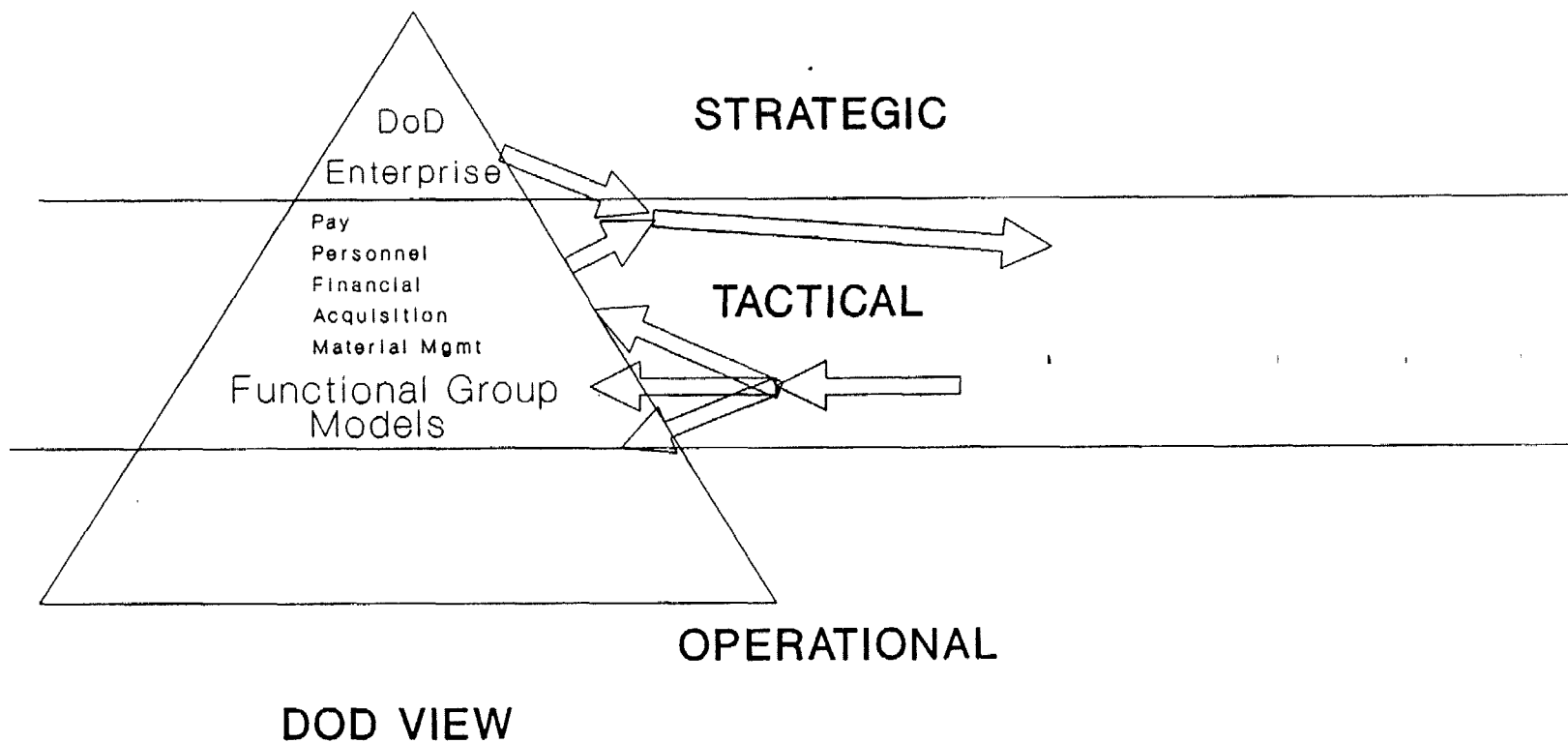
LEVELS OF INFORMATION AND MODELS (Information Uses)



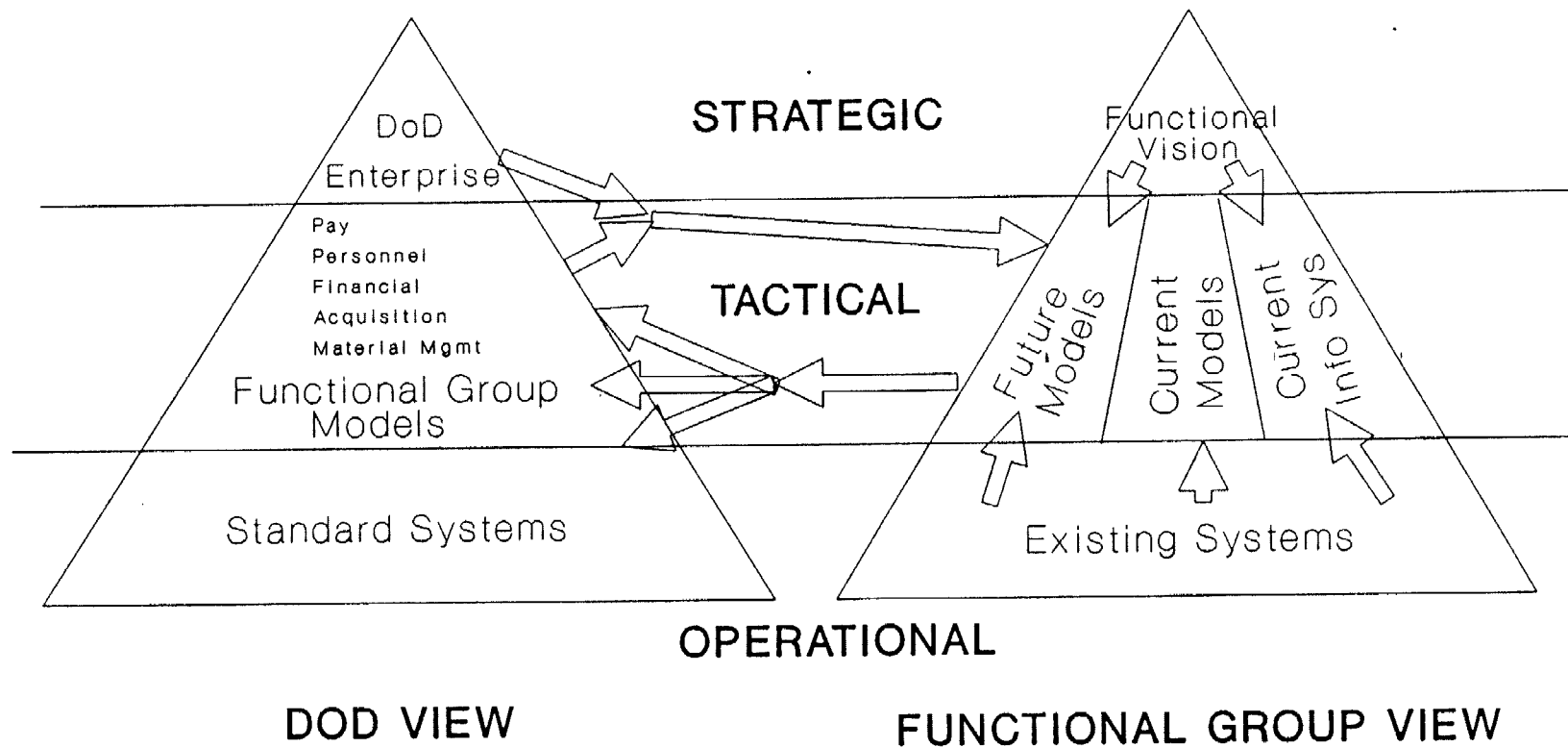
INFORMATION MODEL LEVELS



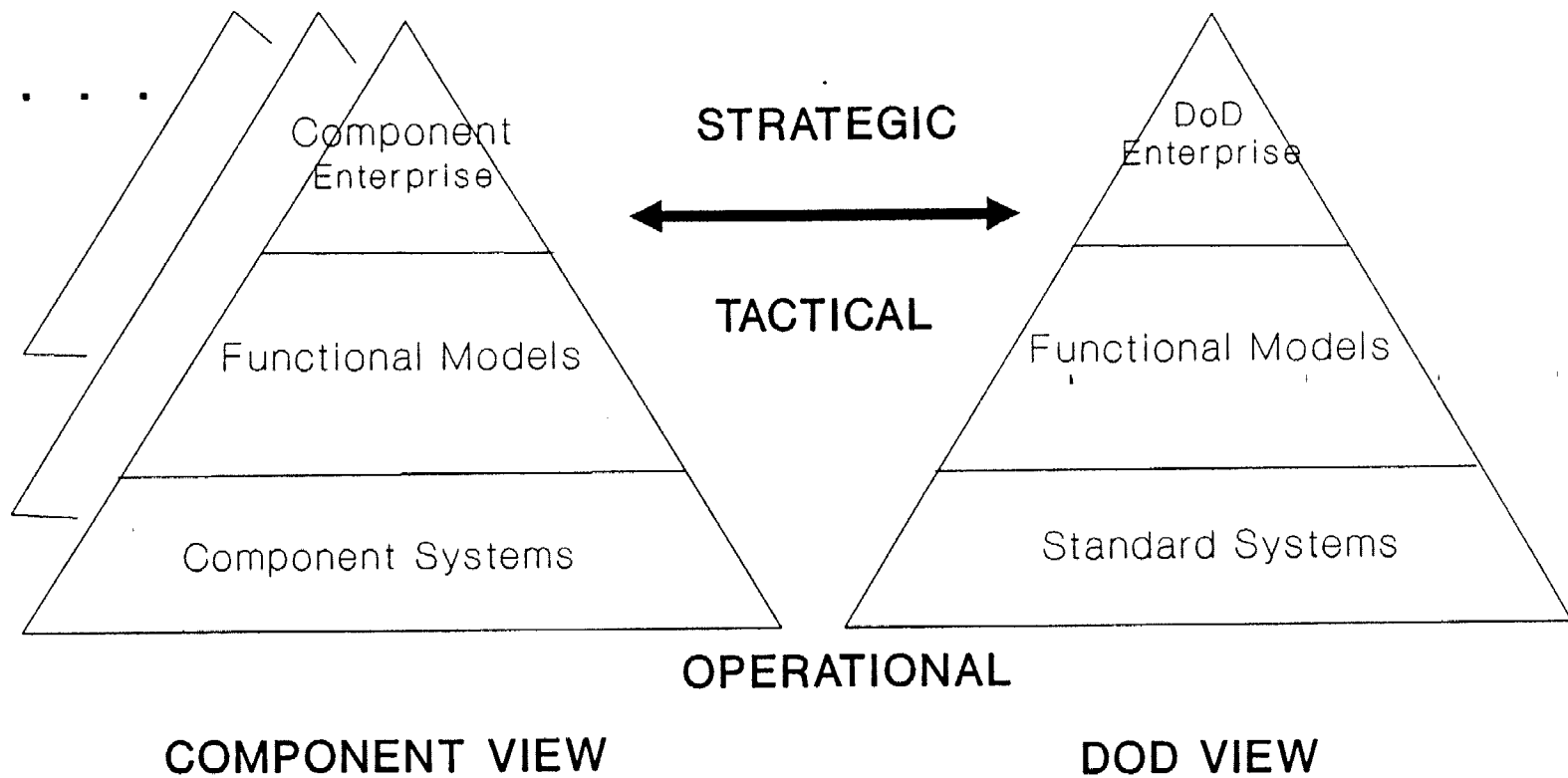
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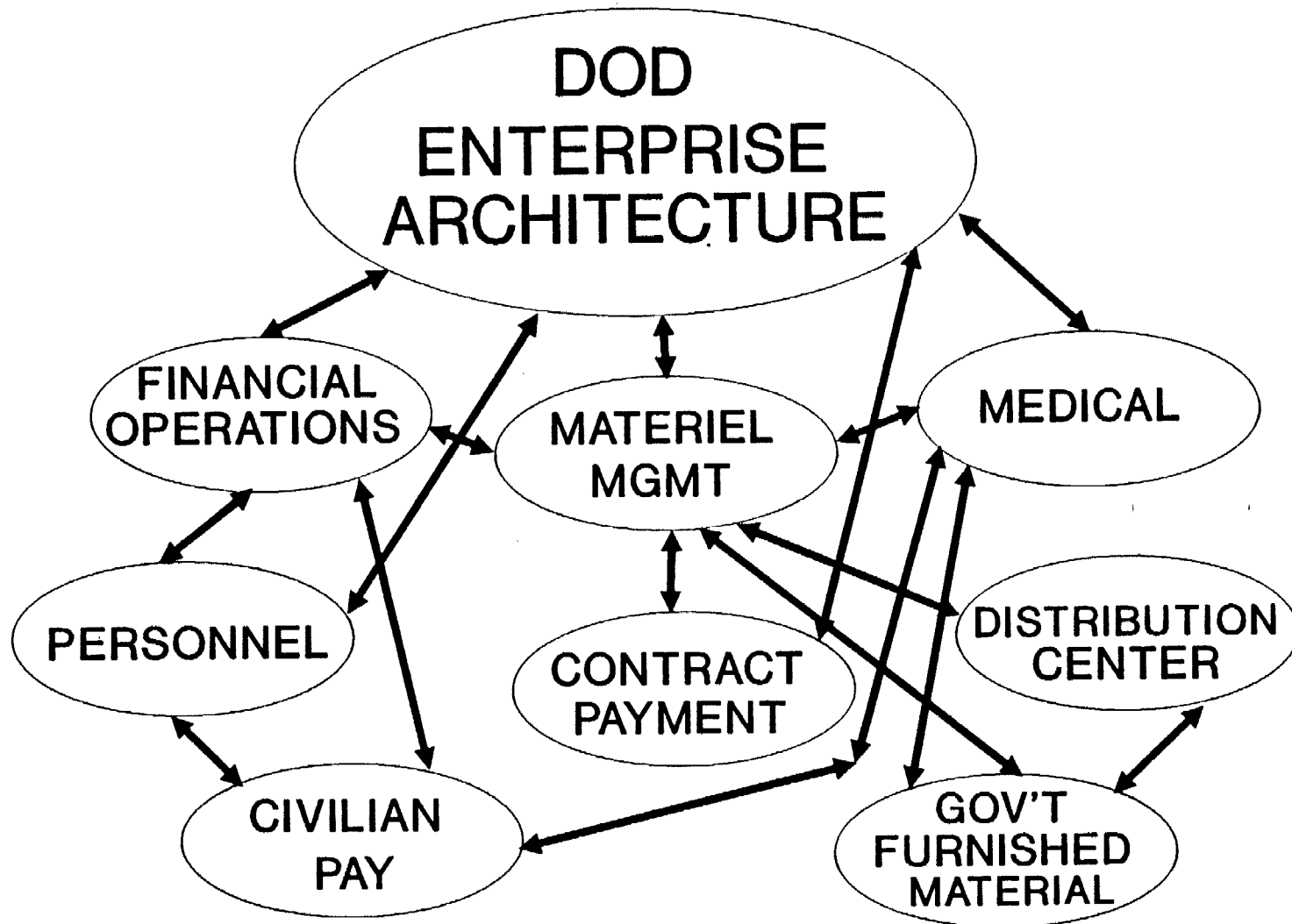
INFORMATION MODEL LEVELS



INFORMATION MODEL LEVELS



AFTER THE ENTERPRISE MODEL



"INTEGRATED"

HOW WILL THE ENTERPRISE MODEL BE USED?

ANALYZE

Functions

Functional and
Data
Requirements

Current Systems

DETERMINE

Gaps
Incomplete coverage
Overlaps or redundancies

Future standard systems
Common Areas

Adaptability for Interim
Systems

WHAT IS NEEDED?

- Functional Expertise
 - High-Level Business
- Technical Expertise
 - Modeling
 - Architectures
- Support
 - Armed Services
 - Top Management Commitment

FUNCTIONAL ASSISTANCE

"Capture corporate knowledge"

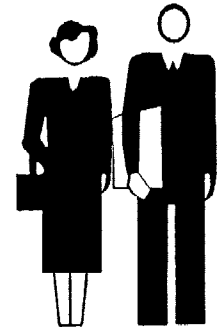
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TECHNICAL EXPERTISE

- Information Engineering
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WHO ELSE WILL PARTICIPATE?

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- Various Consultants

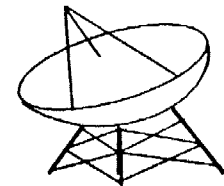
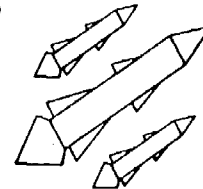
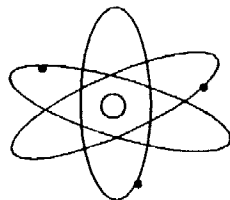


BENEFITS FROM THE ENTERPRISE MODEL

Enterprise Model provides:

- Information necessary for decision-making
- Framework for system integration, interoperability, data sharing and interchange
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Information is
the key, whatever
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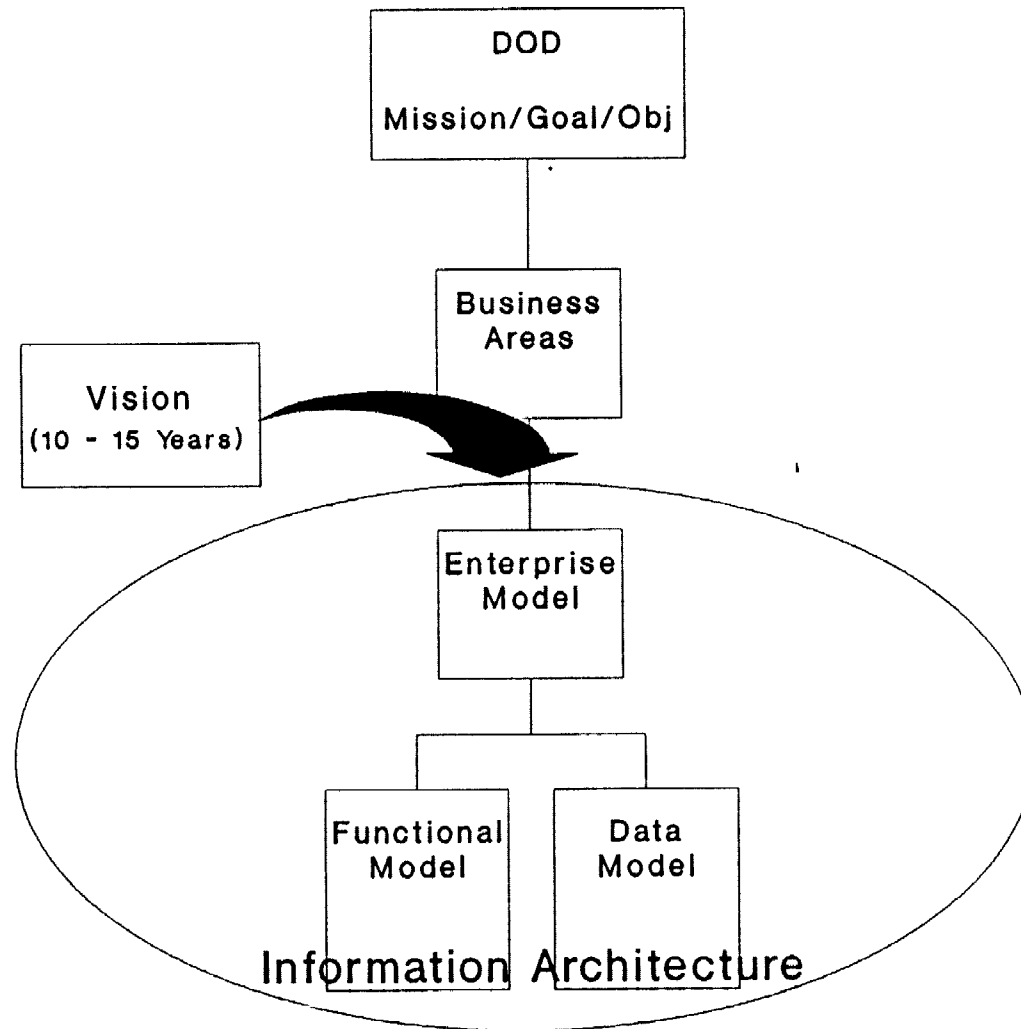
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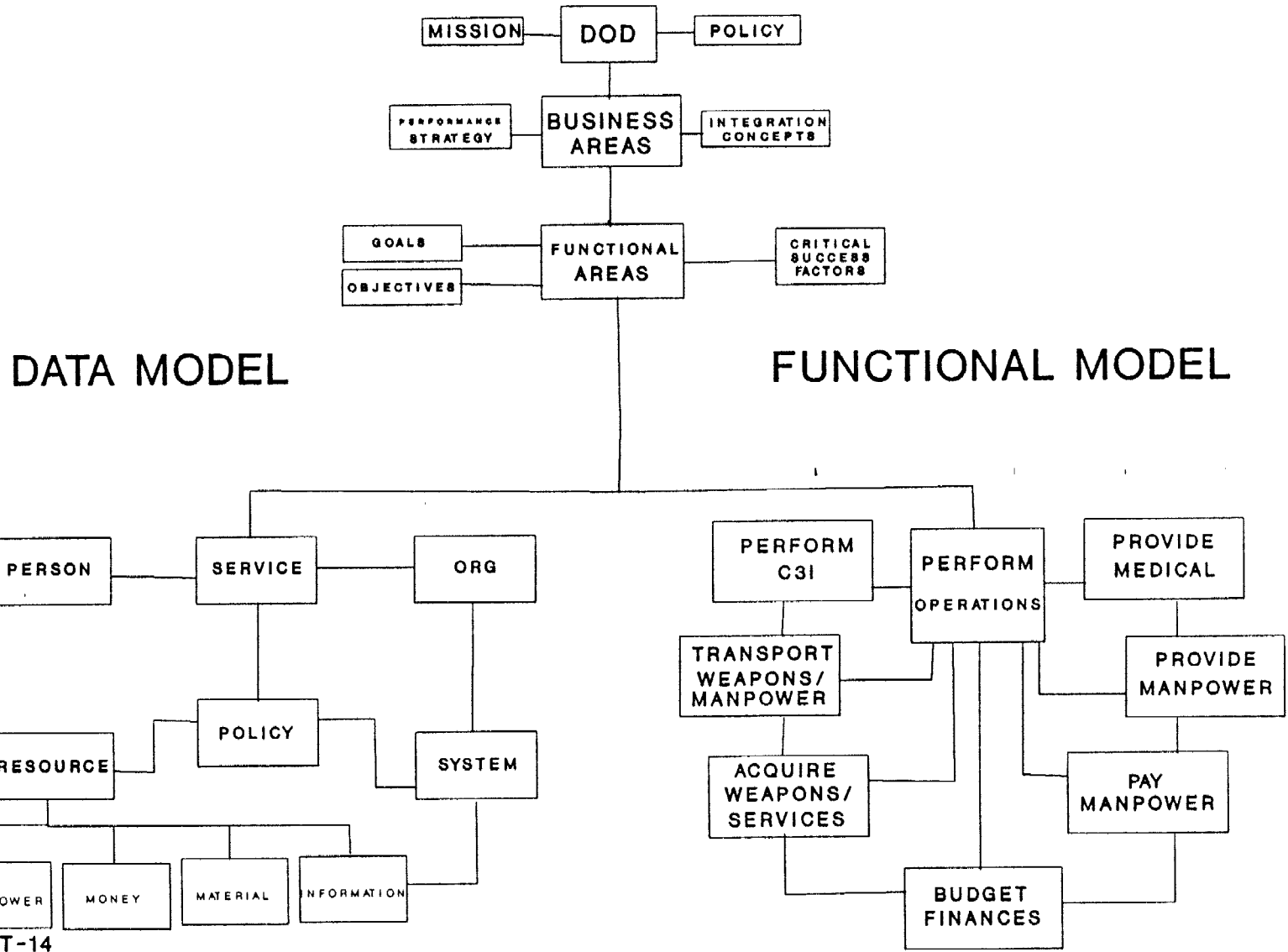
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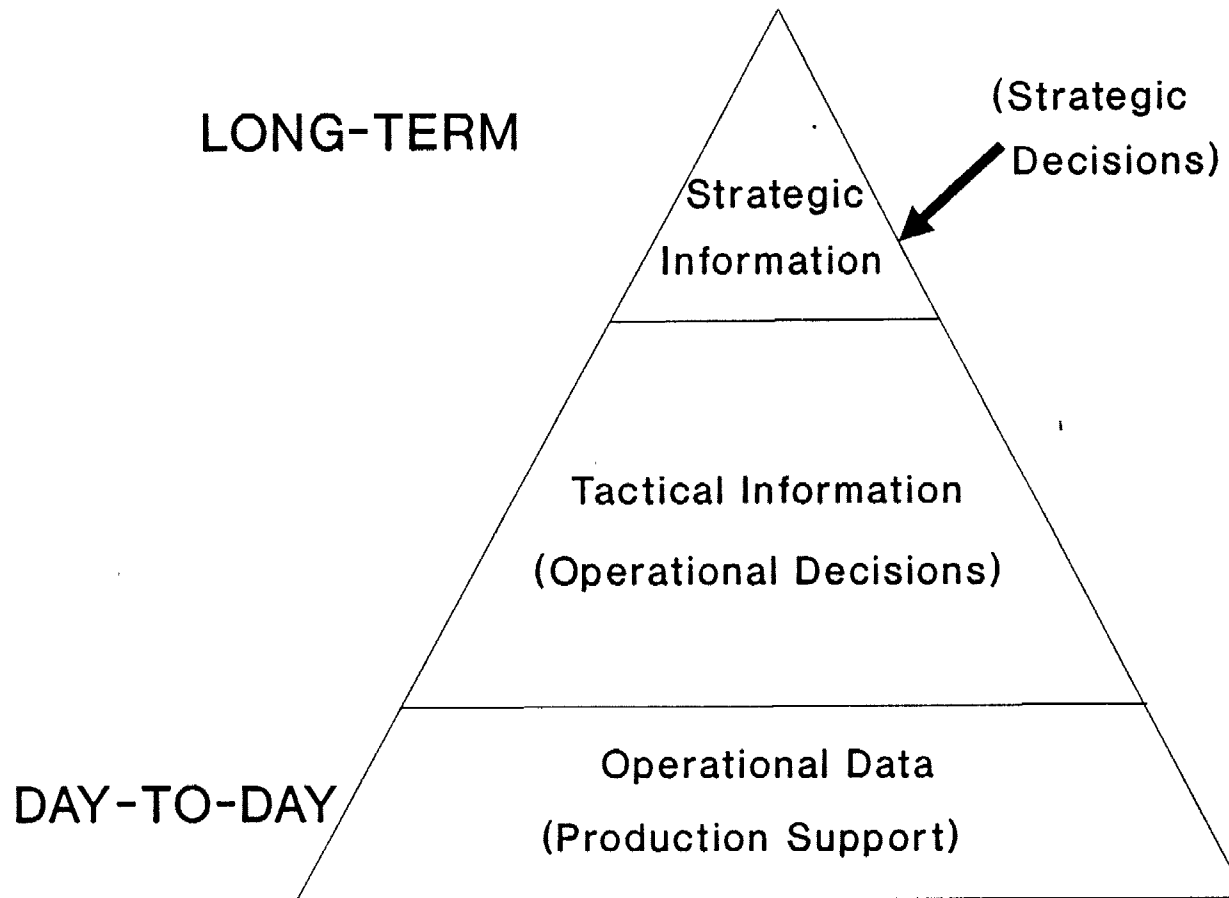
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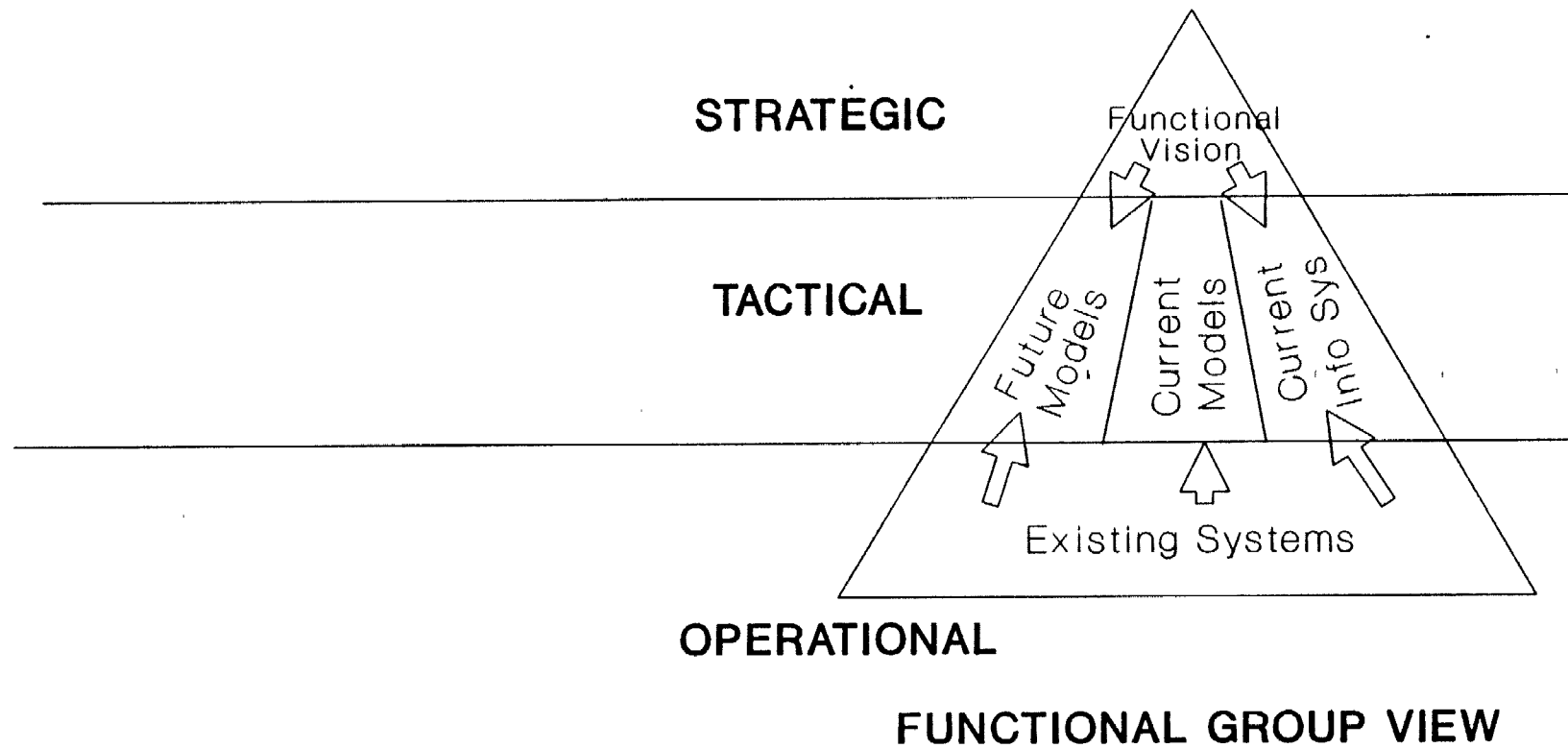
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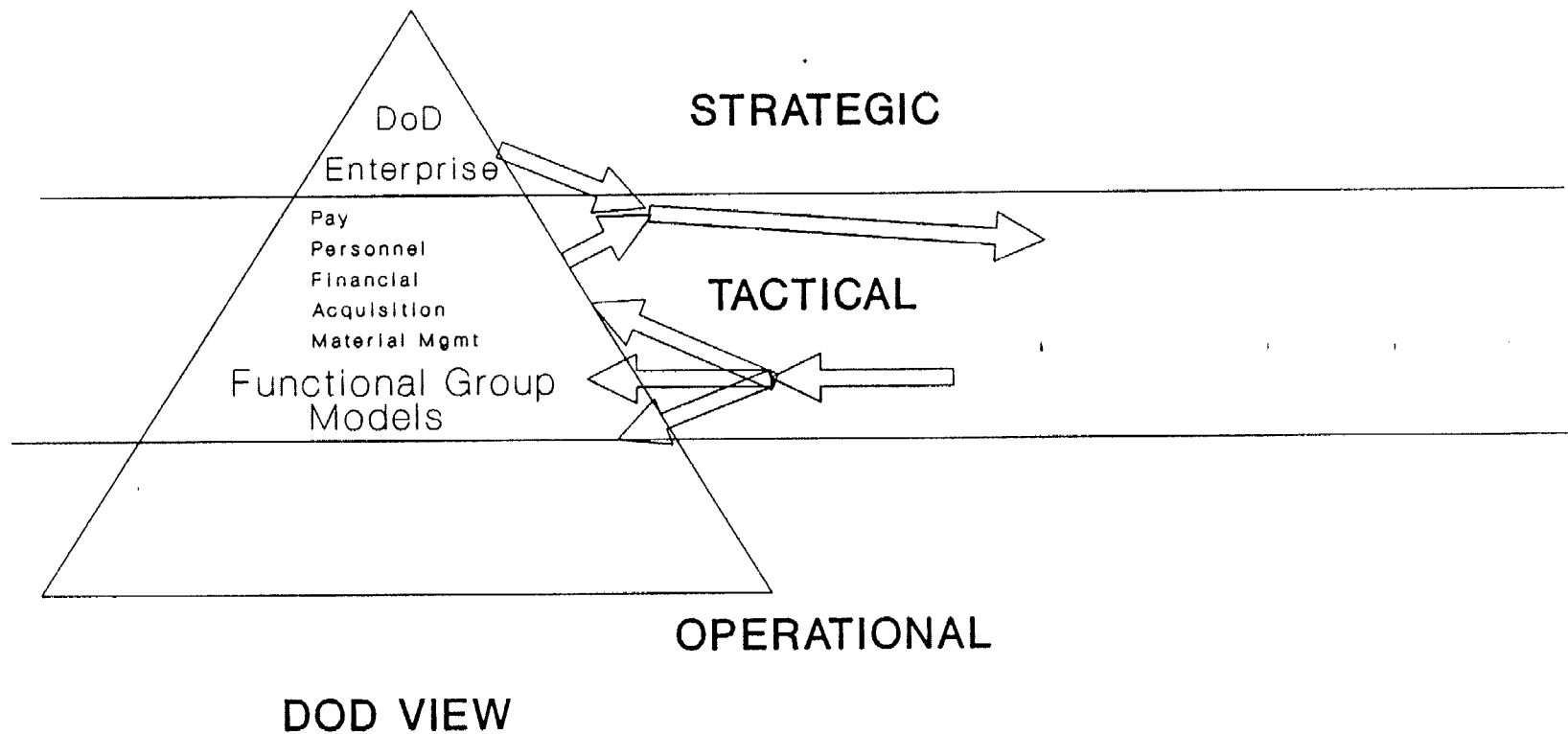
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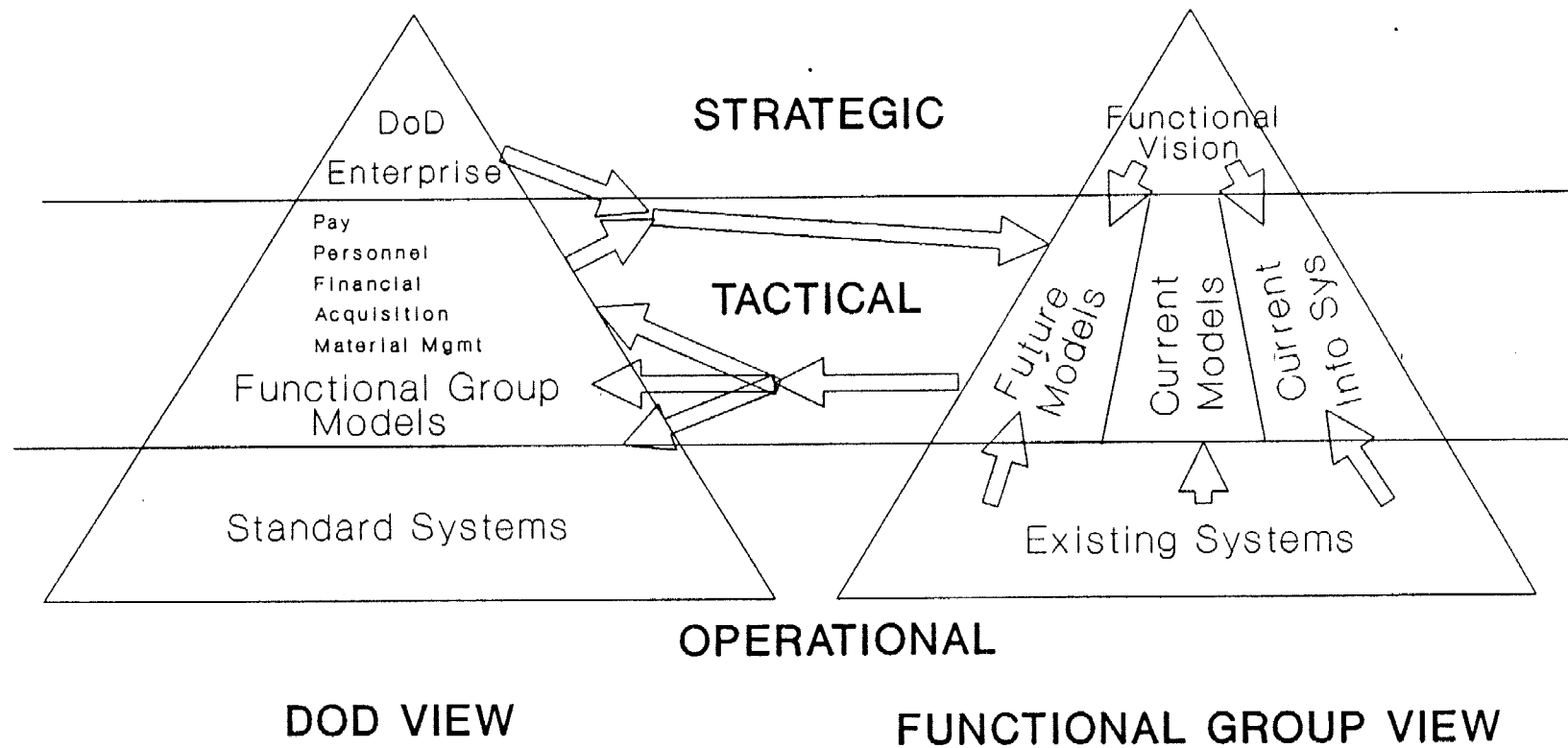
INFORMATION MODEL LEVELS



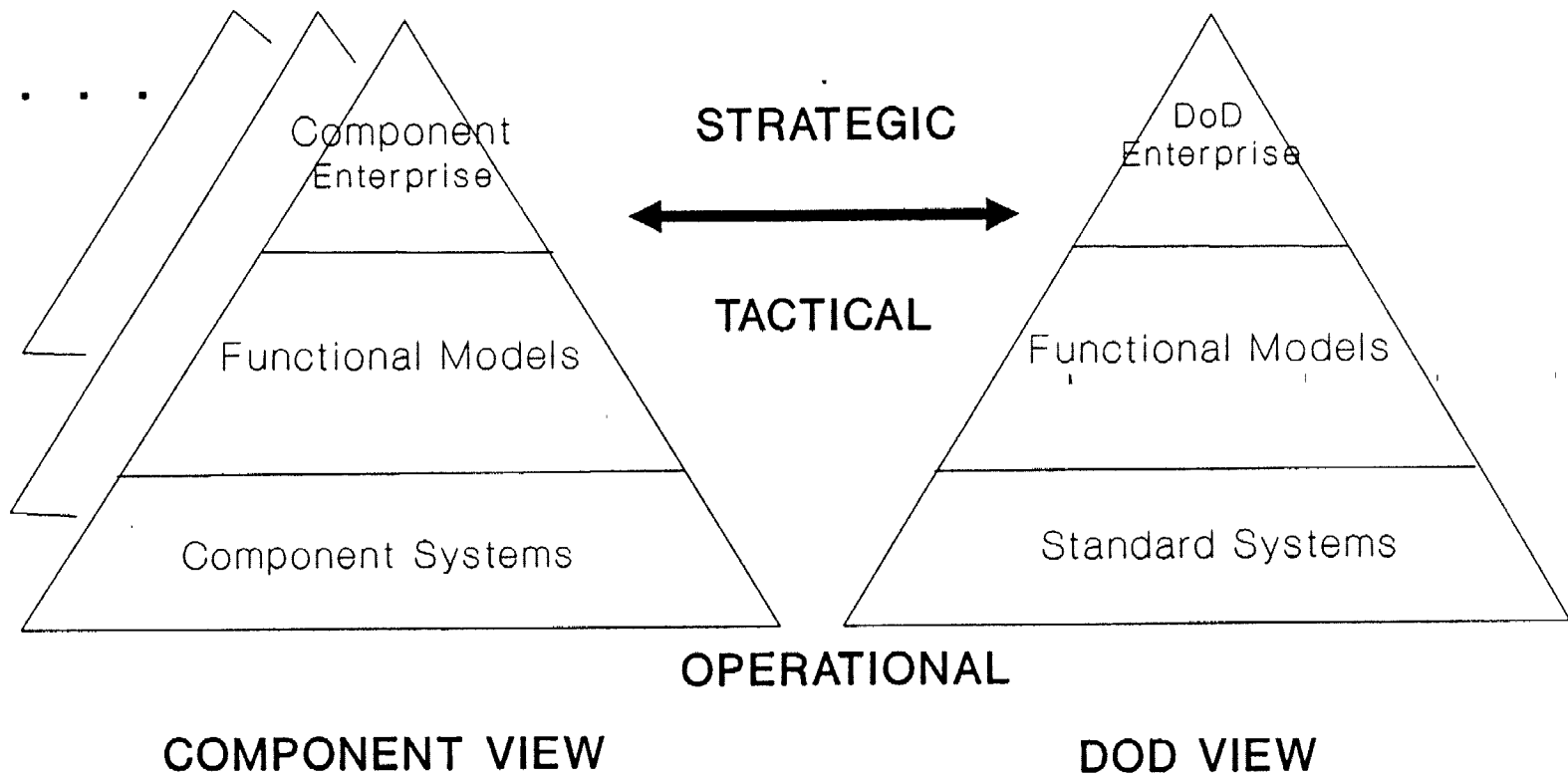
INFORMATION MODEL LEVELS



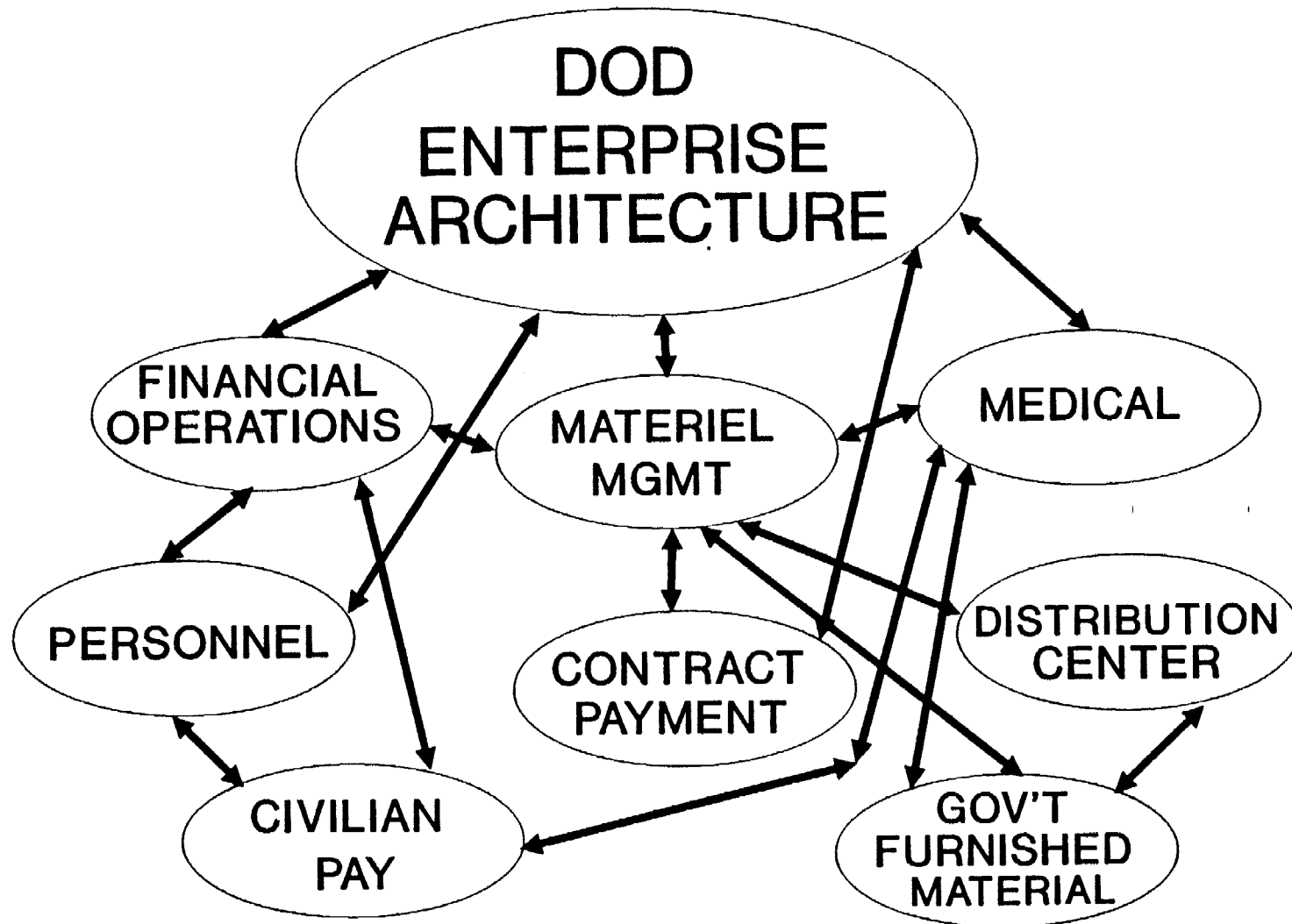
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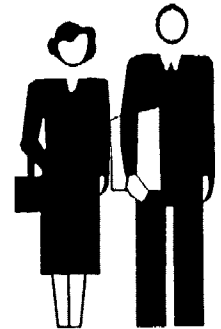
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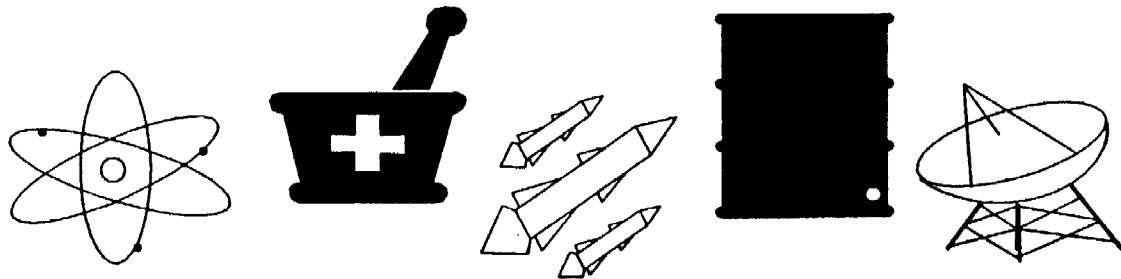


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PROPOSED BUSINESS AREAS

Preliminary

Military Operations

Finance

Command, Control,
Communications
and Intelligence

Acquisition

Medical Services

Logistics

Military Affairs

Manpower

ENTERPRISE LEVEL ACTIONS

<u>TASK</u>	<u>STATUS/ACTION</u>	<u>DATE</u>
DoD Mission/Goals/ Objectives Analysis	In Progress	Ongoing
Proposed Executive Level Work Sessions	Start	11-6-90
Data Standardization Policy	Draft submitted for review	Ongoing

AGENDA

INFORMATION ARCHITECTURE
GROUP

ENTERPRISE MODEL

DATA MODELING

DATA STANDARDIZATION

WHY DO WE NEED ARCHITECTURES?

- Establish framework for now and the future
- Integration of business functions and associated information requirements
- Identify gaps, overlaps, and interfaces
- Set functional boundaries for standard systems

PROVIDES STRUCTURE TO MAKE THE
WHOLE GREATER THAN ITS PARTS

INFORMATION ARCHITECTURE

Enterprise Level

Model of the Organization's
Information Needs
at the highest level.

Based on.....

Vision
Mission
Goals
Objectives

DEVELOPMENT TECHNIQUE

What is our business?

Mission
Goals
Objectives

What will our business be?

Vision
Trends
Forecasts

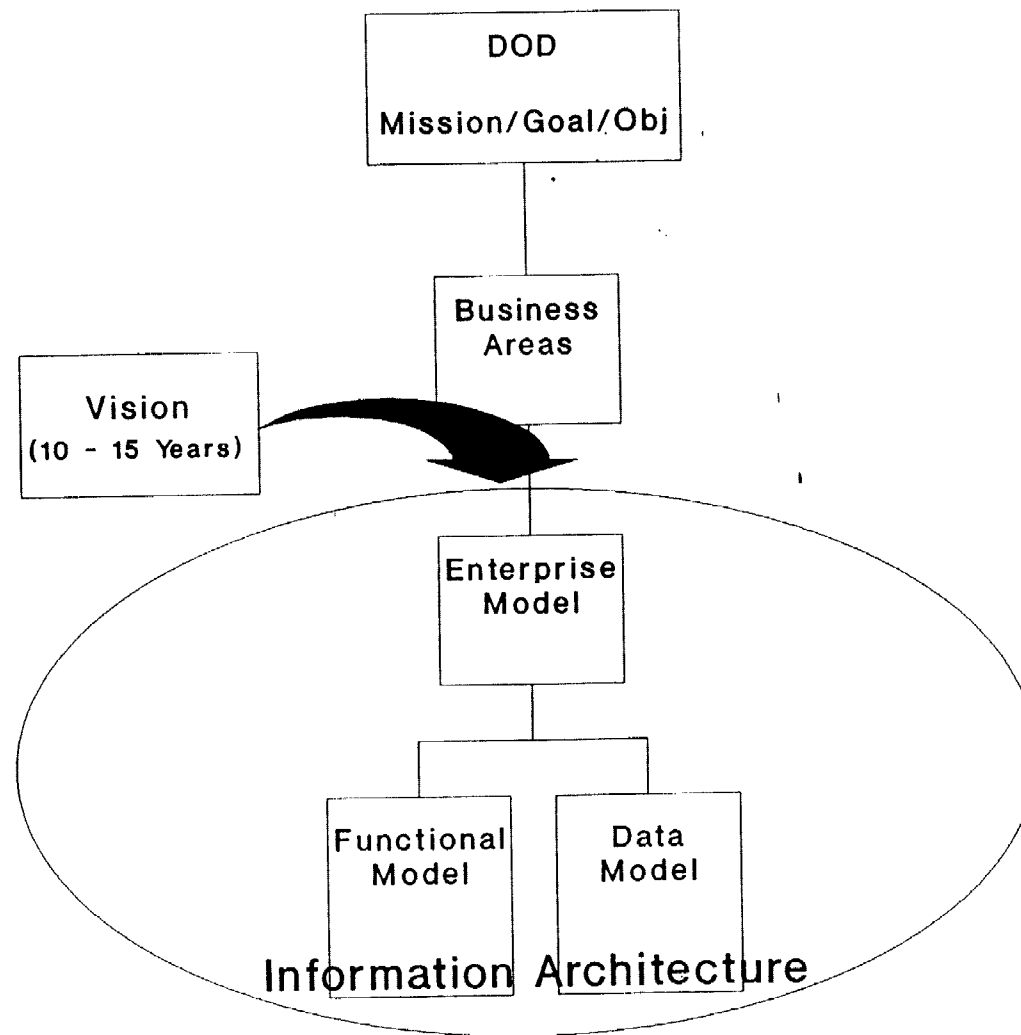
What should our business be?

Strategic Direction
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MISSION OF THE DEPARTMENT OF DEFENSE

"The Department of Defense is responsible
for providing the military forces needed
to deter war and protect the security of
the United States."

INFORMATION ARCHITECTURE COMPONENTS



CIM DIRECTION

STRATEGY

Dual Track

Data

Process

One track not dominating the other

Products are Models

STARTING POINT

Enterprise Model

Reconciliation Points

HOW WILL THE ENTERPRISE MODEL BE DEVELOPED?

- Combination of methodologies
- Carefully facilitated group interaction
- Advance preparation of analytical strawmen

METHODOLOGY

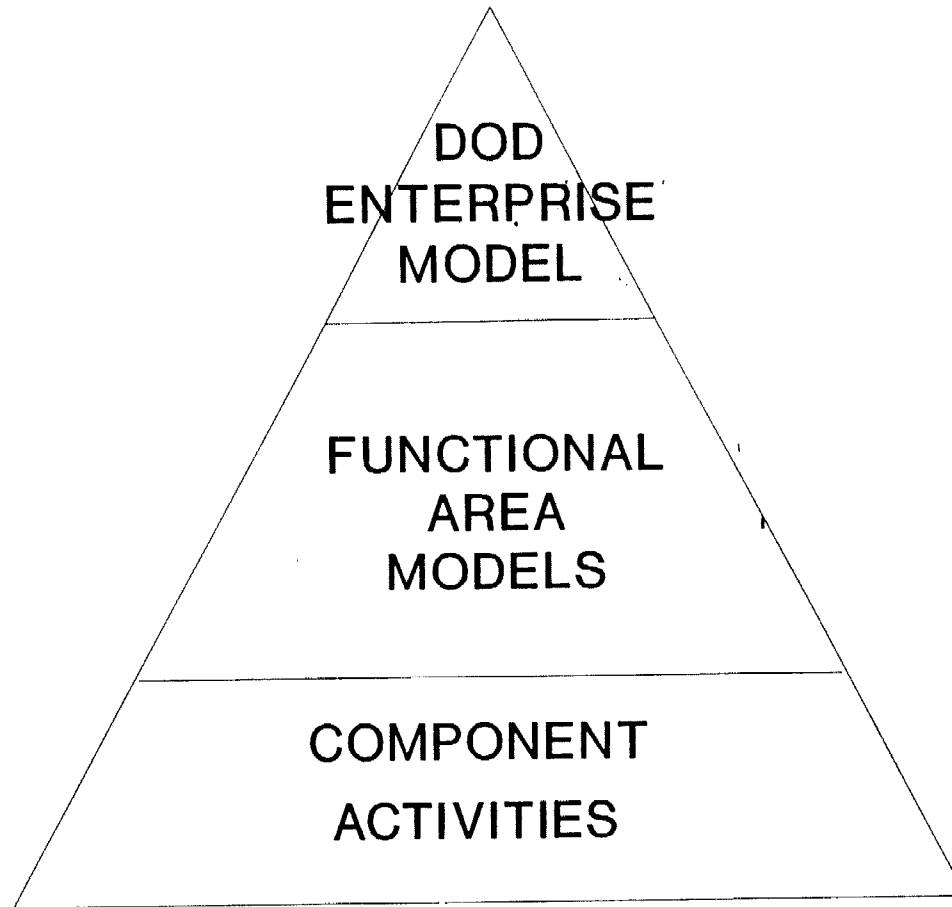
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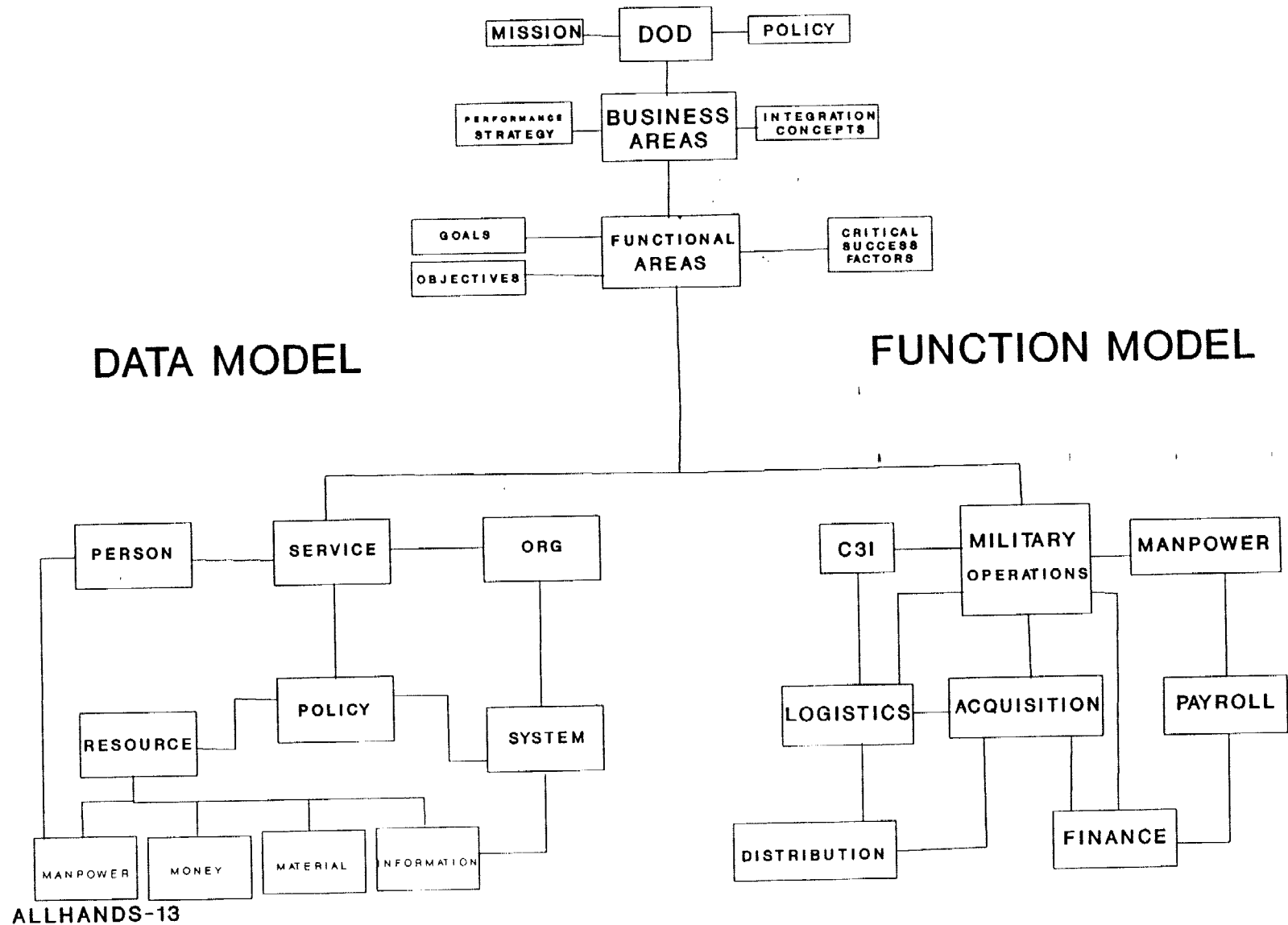
INFORMATION ARCHITECTURE DEVELOPMENT

- Analyze Defense Guidance
- Refine Vision Input from Top Management
- Develop Business Model
Functional Model
Data Model
- Use Standardization Rules

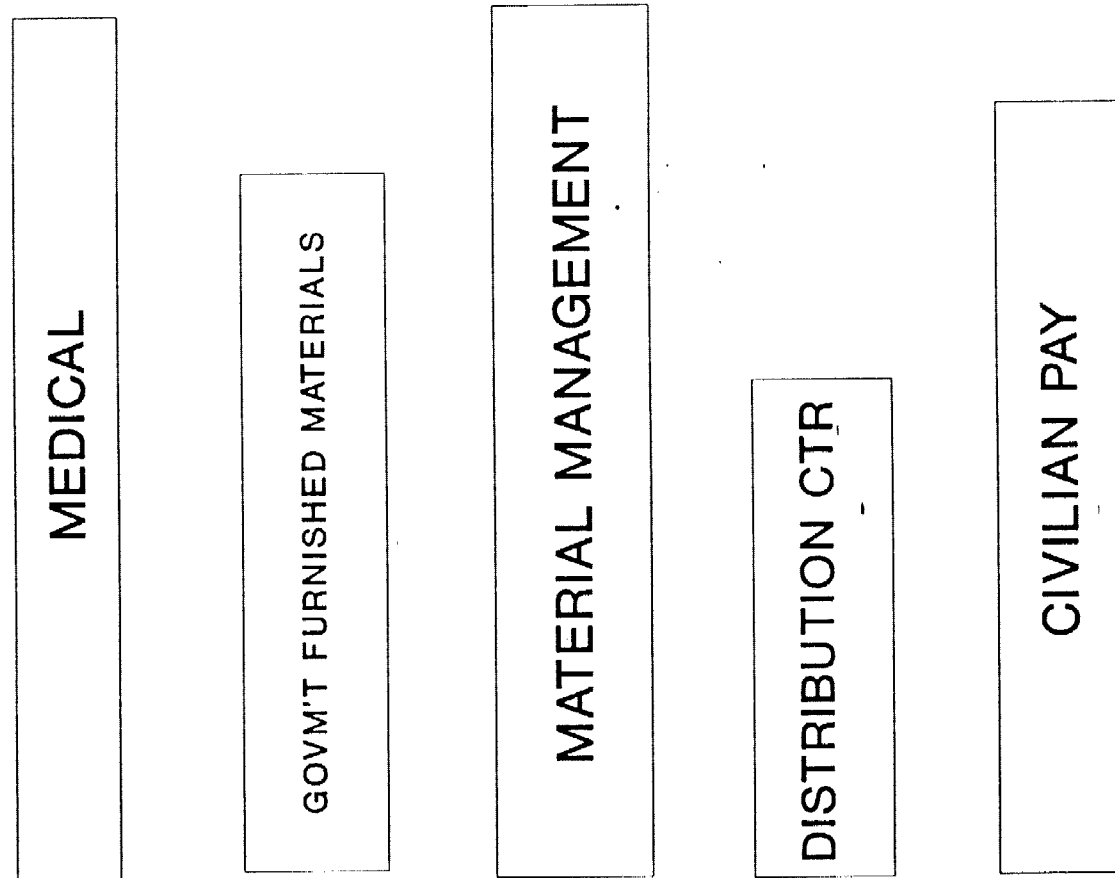
MODEL INTEGRATION



DOD ENTERPRISE MODEL

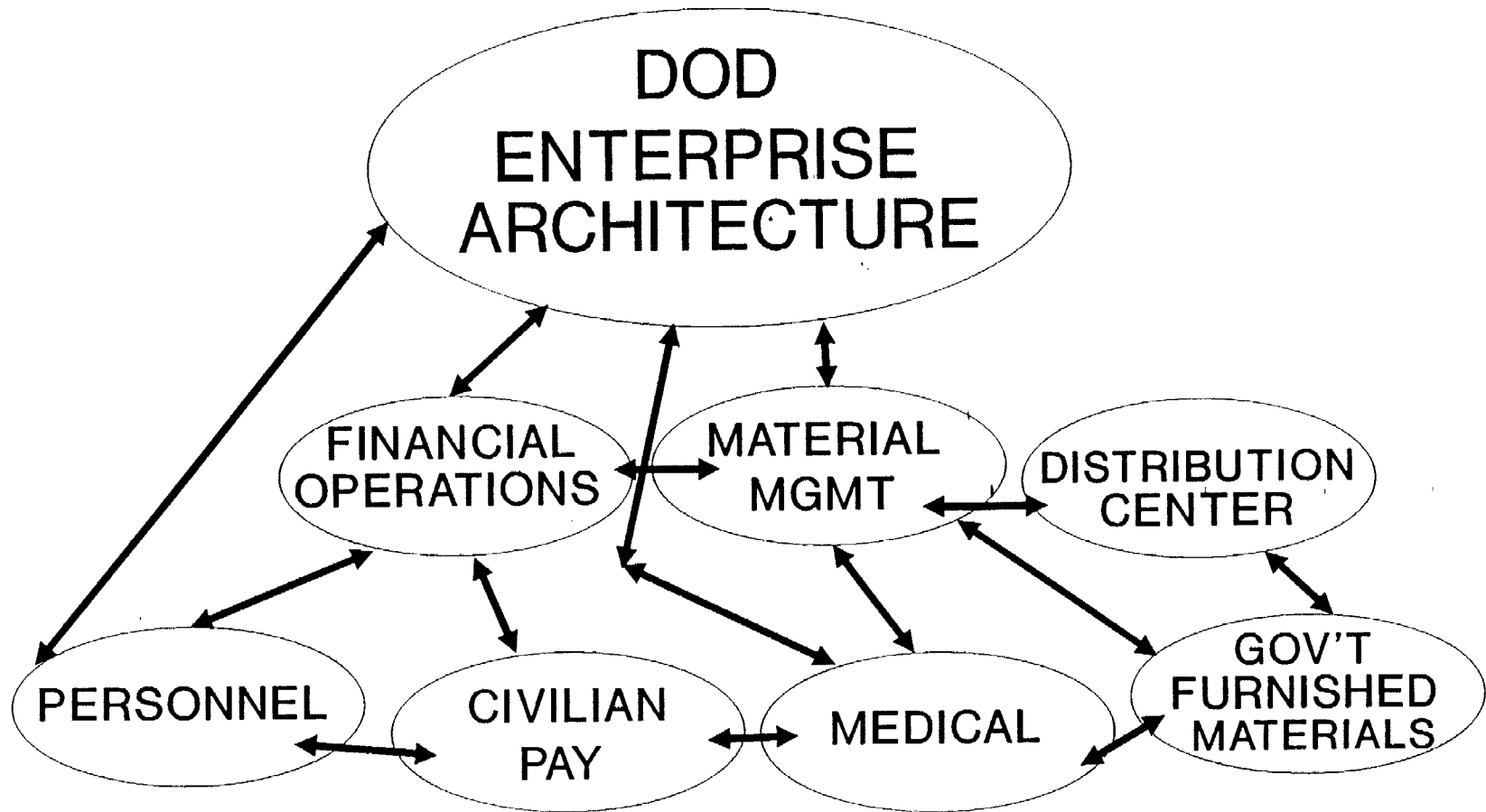


BEFORE THE ENTERPRISE MODEL



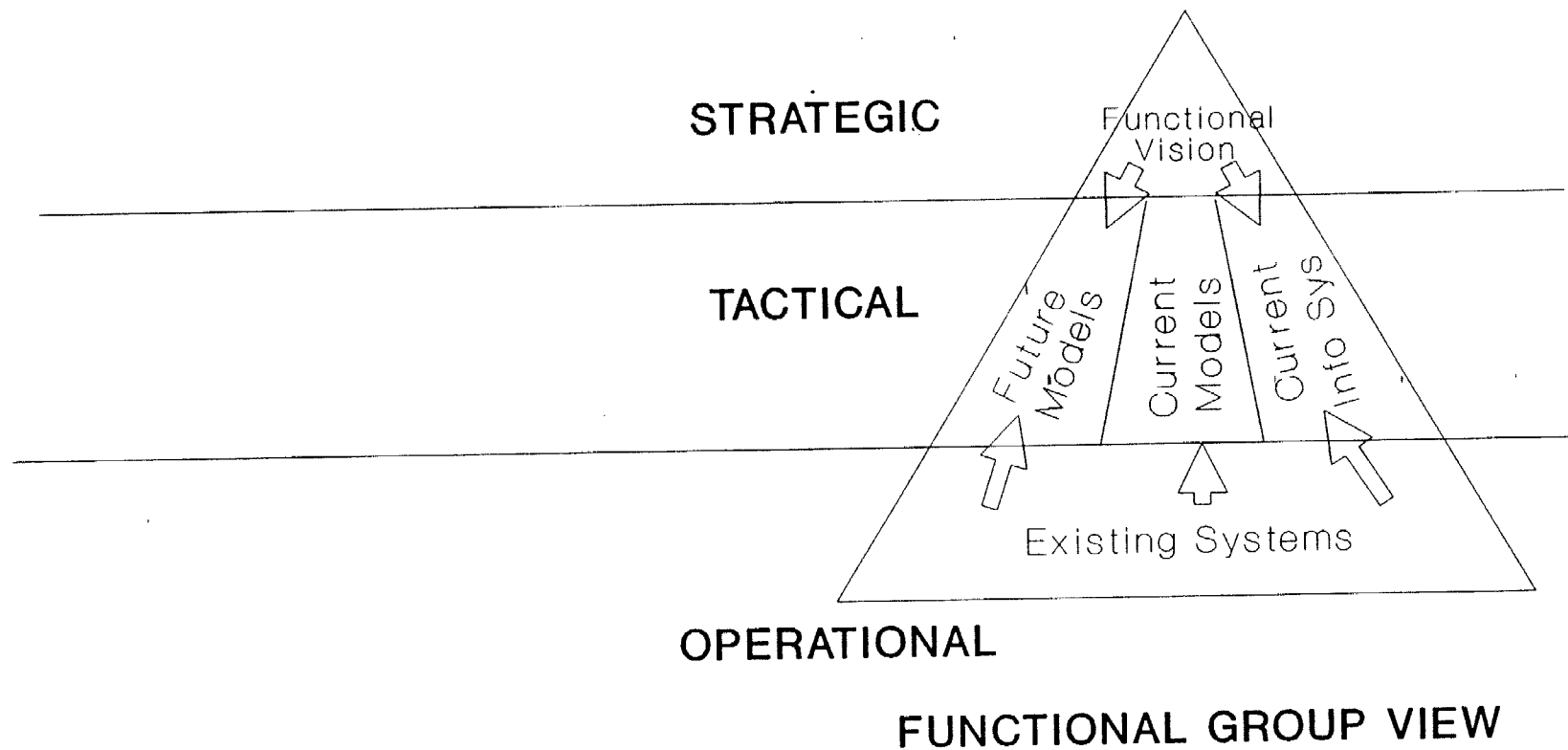
"STOVEPIPES"

AFTER THE ENTERPRISE MODEL

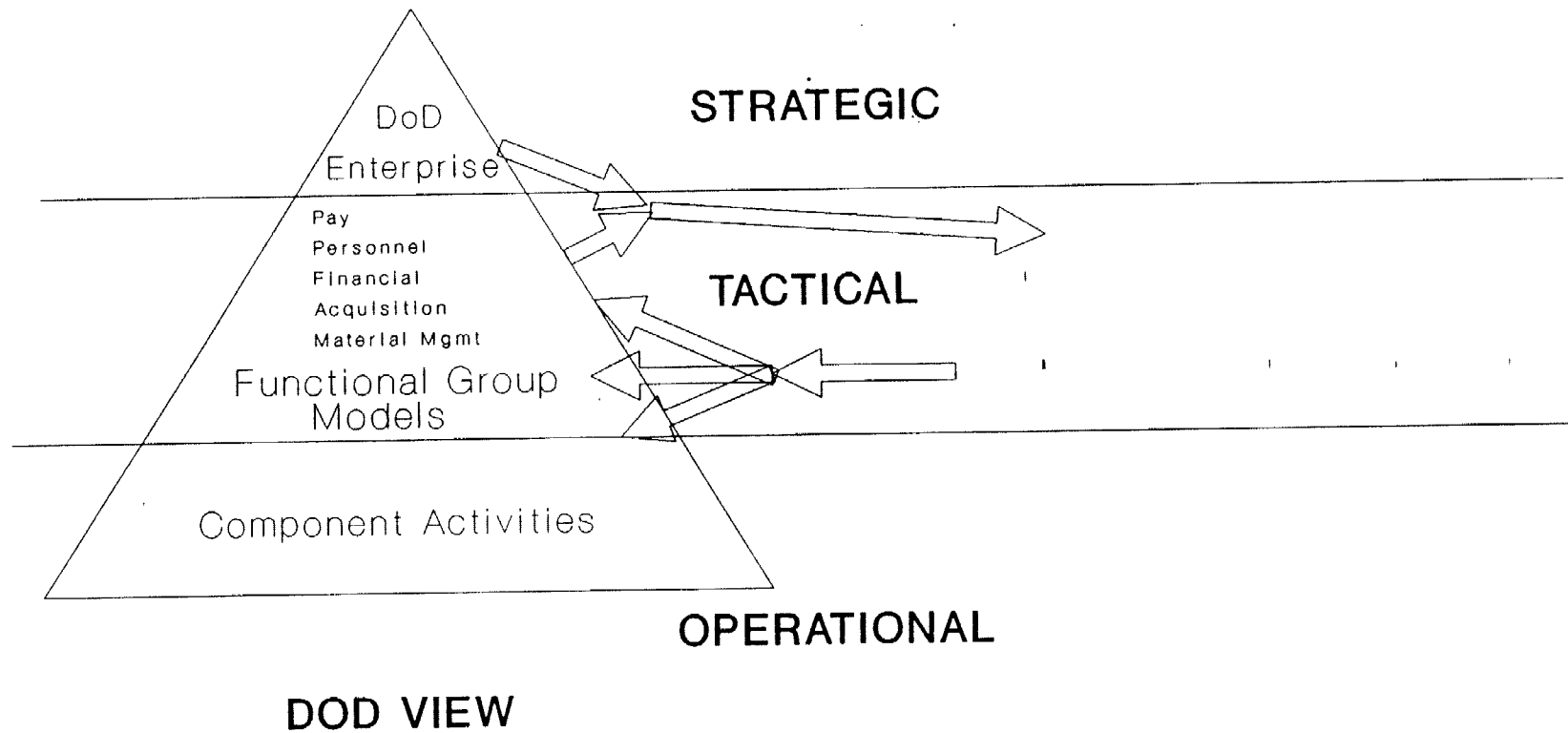


"INTEGRATED"

MODEL INTEGRATION



MODEL INTEGRATION



MODEL INTEGRATION

